



2018 SKILLS BUILDING PROGRAM

BIG DATA, ARTIFICIAL INTELLIGENCE AND DECISION SCIENCE IN HEALTH AND NUTRITION

HEALTH SERVICES PRIORITISATION TOOL

REVIEW OF DAY 2 MATERIALS, QUESTIONS AND PLAN FOR DAY 3

In partnership with



Review of day 2



- No clear definition on what constitutes an intervention but practical considerations of data (e.g. effectiveness) provide certain boundaries
- Local activities can be linked to default activities in the tool
- Default intervention data can be adjusted or overwritten with local data
- Data must be in a certain format when inputted into the tool
- There are ways to facilitate effective collation of local data
- Missing data can be addressed in several ways

Plan for day 3



- Practice running projects using the HSP tool
- Practice interpreting results from the tool and extracting key policy recommendations
- Group presentations of results and key recommendations
- Group discussion on how, when and for what reasons the HSP tool can be applied at a country level
- How the tool can be accessed and running country analyses
- Feedback on the tool and future directions for development
- Concluding remarks before the plenary closing session



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PRACTICE: COMPLETE FULL COUNTRY ANALYSIS WITH THE HSP TOOL
AND EXTRACT KEY RECOMMENDATIONS

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Instructions



In groups, you have **2 hours** to:

1. Complete a full country analysis using project file “Day 3 project” and interpret the findings
2. Use the results to answer one SoW question per group:
 - Question 1: What is the current allocation and impact of spending?
 - Question 2: How does the current allocation of spending compare with the burden of disease?
 - Question 3: Which interventions avert the most burden of disease?
 - Question 4: Which interventions are prioritised under different amounts of spending?
3. Prepare 5 PowerPoint slides per group
 - These should answer your SoW question using relevant HSP tool results, and detail key recommendations for defining a health benefits package using overall results



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PRACTICE: PRESENTATION OF RESULTS AND KEY RECOMMENDATIONS
FROM POWERPOINT SLIDES AND GROUP DISCUSSION

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Instructions



- Each group has 7 minutes to present the 5 PowerPoint slides prepared before lunch
- There will be 5 minutes for questions and discussion at the end of each presentation



What type of key recommendations recur from the results generated by the tool?

In what ways do you think the results can support policy discussions about priority setting?

What do you think of the ease with which results and recommendations could be communicated to different stakeholder?

- In what ways can the results be most clearly presented?



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DISCUSSION: HOW, WHEN, AND FOR WHAT REASONS CAN THE HSP
TOOL BE APPLIED IN YOUR COUNTRY?

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Strengths of the HSP tool



- User-friendly with flexible data requirements. The tool can be applied for a:
 - Rapid analysis using default data
 - More detailed analysis using local data
- Helps investigate which interventions have the most impact on disease burden, and should be prioritised when defining or updating a health benefits package
- Can run investment scenarios to estimate the impact of increasing or decreasing health spending, and inform which interventions should be prioritised under different amounts of spending
- Generates graphical outputs that can be understood across levels of expertise and government departments

Limitations of the HSP tool



- The tool is best suited for supporting the selection of interventions to include in a health benefits packages, and is not suited for implementation planning
 - The OneHealth tool is more suitable for implementation planning, e.g. determining resource needs across platforms of service delivery (e.g. PHC or hospital), estimating overall HR needs, infrastructure etc.
- The tool is currently unable to distinguish between different sources of financing, and only considers total intervention spending regardless of the source

Feedback on the tool



For 30 minutes, in your groups, think about the following questions:

1. How usable do you find the tool?
2. How relevant do you find the results of the tool?
3. What do you like best about the tool?
4. What features would you like to be added in the tool?
5. What would you like to see improved or removed from the tool?

Each group will have 5 minutes to summarise answers to the questions, this will help shape the future development of the tool!



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FUTURE DIRECTION FOR TOOL DEVELOPMENT

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Current priorities for development



1. More graphical outputs to visualise the cost and impact of interventions
2. Linking to more datasets to increase the amount of default data available
3. Automation and increased ease of adjustment of default data
4. Inclusion of non-health impact measures (equity and financial risk protection) for interventions
5. Development of an optimisation algorithm that mathematically defines health benefits packages which can maximise cost-effectiveness, equity and financial risk protection